$H_0: P_0(x) = \begin{cases} 1, & x \in (0,1) \\ 0, & x \notin (0,1) \end{cases}$ $H_1: P_1(x) = \begin{cases} e^{1-x} \\ e^{-x} \end{cases}, & x \in (0,1) \end{cases}$ $Q_1 h = 1$ $e^{1-x} = \begin{cases} 1 - x \\ 1 - x \end{cases} = \begin{cases} 1 - x \end{cases} = \begin{cases} 1 - x \\ 1 - x \end{cases} = \begin{cases} 1 - x \end{cases} = \begin{cases}$ 1-x> en C(e-1); x ≤ 1-ln C(e-1)=A Gy: X = A; P(x = A | Ho) = L, T. e.) P(x) dx = L => A= L Gree: $2 \le d$. d = d = -one dea I poga $|X| = P(x \le A \mid H_{R}) = \int_{0}^{R} P_{1}(x) dx = \int_{0}^{L} \frac{1-x}{2-1} dx = -\frac{2(1-x)}{2-1} dx$ = $\frac{\ell}{\ell-1}(1-\ell^{-1})$; $W = \frac{\ell}{\ell-1}(1-\ell^{-1})$ - morte, would reput expect the expectations 12 = 1 - \(\frac{l}{e-p} \left(l-e^{-2} \right) - oundra II poga $\frac{\delta}{1} = 2 \qquad \ell = \frac{L_{1}}{L_{1}} = \frac{P_{1}(x_{1})}{P_{1}(x_{2})} = \frac{\ell^{1-x_{1}}}{\ell^{1-x_{2}}} \geq \ell^{1-x_{2}} \leq \ell^{1-x_{2}} \leq$ => Gup: X1+X2 & A P(x1+x2 \le A (Ho) = 2 ; \ I = S) dx1 dx2 = 2 X+X2EA AX2 P= = 122 Gap: x1+x2 < 127, 2=2 X1+X7 = A

W=P (x1+x2 < A/M1) = 5 e'-x1/-x2 dx1dx2 = = e² (1-e^{-A}-e^{-A}-A); W= e² [e-e^{-A}(1+A)] 1=1-e2 [1-e-A/+A]= c) four 17 + 0 Turl cuit kput epuit: n=n $C = \frac{L_1}{L_0} = \frac{1}{l_1} \left\{ l_1(x_i) - \frac{n}{17} \frac{p_1(x_i)}{p_0(x_i)} \right\} C \Rightarrow$ $= \frac{1}{l_0} \left\{ \frac{p_1(x_i;f)}{p_0(x_i)} \right\} = \frac{1}{l_0} \left\{ \frac{p_1(x_i;f)}{p_0(x_i)} \right\} \geq l_0 C; \frac{24n}{17} : \sum p_i - n M_{p_i}$ $= \frac{1}{l_0} \left(\frac{p_1(x_i;f)}{p_0(x_i)} \right) \geq l_0 C; \frac{24n}{17} : \sum p_i - n M_{p_i}$ $= \frac{1}{l_0} \left(\frac{p_1(x_i;f)}{p_0(x_i)} \right) \geq l_0 C; \frac{24n}{17} : \sum p_i - n M_{p_i}$ Branien Chyrae: $2i = \ln \frac{e^{1-\chi_i}}{e^{-\chi_i}} = \ln \frac{e}{e^{-\chi_i}}$ Ho: Mn; = M [ln e-1 -xi] = ln e -1 $\mathcal{D}_{\eta} = \mathcal{D} \left[\ell_{n} \frac{\ell}{\ell-1} - \chi_{i} \right] = \mathcal{D} \left[\chi_{i} \right] = 1/\ell^{2}$ $\frac{P(\ell_n L) \geq \ell_n (|H_0|) = L}{P(\Sigma_n; \geq \ell_n (|H_0|) = P(\Sigma_n; -nM_n; \geq A)}$ $P = \int_{A}^{e^{-x_{2}}} \frac{e^{-x_{2}}}{\sqrt{2\pi}} dx = \lambda_{i}$ enc-u(ene-1-2) = u lac-ula e-1-2+ u Viz lub= Elue-1 - Ex; Gxp; lul > luc -Σ x; > - n + 4- /2 /: (-A) Gup: X & & - 4 - Vizn 1 di=L A EMPITOT. KOUT. STACTS: $W = \mathbb{E} \left(\ln \ell \ge \ln c \mid H_1 \right) \mid \mathbb{E} \left(\mathbb{R} \ge \frac{\ln c - n M_1}{\sqrt{n \mathcal{R}_1}} \right)$ Σn_i H1: My = ln e-1 - MIx; J = ln e-1 - 8 x e-2 dx $= ln \frac{l}{l-1} - \frac{l-2}{l-1}$ $\mathcal{D}_{\eta_{i}} = \frac{e^{2} - 3et!}{(e-1)^{2}} \quad W = \int_{0.27}^{1} e^{-\frac{x^{2}}{2}} dx$ $B = n\left(\frac{e-2}{e-1} - \frac{1}{2}\right) + 4 \sqrt[n]{n^2}$ VA. e?-3e+1 (e-e)2 > Se-x/2 / X=1)=> Upixepui cocrostenburga d) Gap: Xmi < C P (xmin < C/Ha) = L 40 = G~ R (O, 1) H,: Xmig~ 1-(1-F(x))" (-h-F(c)) = L (1-f(c)) = 1-L F(c) = 1-251-L= Coup: Xmin < 1-VI-L' 21=2 (Rpocons ouroregallo) W= P(xmin < C/H1); F(x)=+\$P, A21+=Set-t- $= \underbrace{\ell}_{-1} \left(\ell - e^{-\chi} \right) \times \epsilon \left(0, 1 \right)$ $\frac{e}{e-1}(1-e^{2}) \times \epsilon(0,1)$ $V = 1-(1-F(c))^{h} = 1-(1+\frac{e^{2}}{e-1}-\frac{e^{2}}{e-1})^{l}$ $= 1 - \left(1 + \frac{e! - 1 + \sqrt{12L}}{e - 1} - \frac{e}{e-1}\right)^{\frac{1}{2}} = 1 - \left(1 + \frac{e}{e-1} - \frac{1}{e-1}\right)^{\frac{1}{2}}$ $= 1 - \left(1 + \frac{e! - 1}{e-1} - \frac{e}{e-1}\right)^{\frac{1}{2}} - \frac{e}{e-1}$ $= 1 - \left(1 + \frac{e! - 1}{e-1} - \frac{e}{e-1}\right)^{\frac{1}{2}} - \frac{e}{e-1}$ $= 1 - \left(1 + \frac{e! - 1}{e-1} - \frac{e}{e-1}\right)^{\frac{1}{2}} - \frac{e}{e-1}$ $= 1 - \left(1 + \frac{e! - 1}{e-1} - \frac{e}{e-1}\right)^{\frac{1}{2}} - \frac{e}{e-1}$ $= 1 - \left(1 + \frac{e! - 1}{e-1} - \frac{e}{e-1}\right)^{\frac{1}{2}} - \frac{e}{e-1}$ $= 1 - \left(1 + \frac{e! - 1}{e-1} - \frac{e}{e-1}\right)^{\frac{1}{2}} - \frac{e}{e-1}$ $d_2 = 1 - W = \left(1 + \frac{eV_{1-d}}{e-1} - \frac{e}{e-1}\right)^n$ Corrogrenemous -? X/ >0 => 2 2 >0, PACCM. (He-1-1-1) e VI-2 = e n la (1-2) = (l+ la (1-2) + O(2)) = e(1-1 la (1-2)+ 22 = (1+ l(1+lu(1-2)=++0/1) - 1/2= (1+ (eln (0-2)) + e-e, o(a)) =>e-e-lu(1-2) te-1) = 0 => Koureon ree abo. COCTOST.